Work Order ID July-19-12 1:22:08 PM	· · · · · · · · · · · · · · · · · · ·			Page 1						
Revision ID:	.664-101TRN		Accept	*N900	<u>040</u>	100	* *N	S1* S2*		
Start Date: 7/10/1 Required Date: 8/17/1 Reference:	~ •	*1* *1*		Cust Item Customer:	ID:					
QC:	ess Plan: MLJ	Date: 12/07/	ZoTooling: SPC (Y/N):		ate:		F	tun Star Stop	!/	R1* R2*
Sequence ID/ Work Center ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr									
D212-664-141	Rev D (DEO)									4
*100 *100* Mori Seiki	MORI SEIKI CNC LA	THE LARGE	0.00			,		Ø		
Mori Seiki CNC Lathe Large	Memo 2 1-Fill tube	with sand & install plugs D		er Folio FA113				,		mm.
	2-Turn firs 3-Blend tr FOLIO RE DWG RE\ *Use mill	t side as per Folio FA113 ansition lines only, **do not	t sand whole tube**: tedly with file card.	1-2-						man. 12/00
110	QC1- Inspect dimensio	ns to dimension sheet	0.00					J		
QC Quality Control	, Memo	of a	0.00	er in			(anga. 12/07/3

Yes	/(No)
	Yes

WORK ORDER NON-CONFORMANCE / UPDATE

/ 1		*
DQA: Da	te: 12/08/22	
y = 		_
	$Q(0) \downarrow 1$	

											QA Closed:	Date:	0144114
Work Orde	er: 8	375	557	-		DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part N	10. 🎝	2/2	2-6	64-	-161TR	Rewo Scr Use-as Work Order Upda	ap s-is X	Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite			Pro	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root					Descri	iption of work order upd	late	Initial	Act	tion	Sign &		
Cause	, D	ate	Step	Qty	c	or Non-conformance	Cł	nief Eng	Descr	ription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training	114	1413	100		Coff tolera	15 0.006" below	~ 3	Des 13	Acceptub	k	12/3/13	17/08/13	045 16 052042 1266/13
Unapproved		I	. <u> </u>				EALII	T CATE	SORV				<u> </u>
Landir	ng Gear					General	FAUI	.I CAIL	JORT				
	Ben Cen Crac Crus Cuff Hea Insp	ding tre Not cks shed/C s t Treat	Strip in		o/s	Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		-	on Incomplete ons Incomplete/U nance led	Jnclear	Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct ssing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
ŀ	— ' ' '		bena aves in E	xtrusion	, H	Drawing			alibration				
ţ	•	-	quence	03101	·	Finish	<u> </u>		equence				
ŀ	$\overline{}$		st in Tub	e		Folio		1	Dimensions				

Work Order ID 87557 July-19-12 1:22:08 PM				*875				Page 2				
Item ID: Revision ID:	D212-664-1	01TRN		Accept	*N900	040	100)* s	etup Sta	art 🛪	'NS1'	k
Item Name:	Crosstube Tu	rning Detail							Ste	op 🛪	NS2*	t
Start Date: Required Date:	7/10/12 8/17/12	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:						
Reference:			•									
Approvals:		an:	Date:	Tooling: SPC (Y/N):		ite:		R	Run Sta Sto	op .	'NR1' 'NR2'	k *
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reje Nun	ect Insp. nber Stamp)
*120 *120* Mori Seiki		MORI SEIKI CNC LAT	HE LARGE	0.00				/	/	/	kc	12-8-1
Mori Seiki CNC Lai	the Large	2-Blend trans *Use mill book *Do not use FOLIO REVENUE TO THE TOWN TO THE TOWN TO THE TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN		ot sand whole tube**: atedly with file card.								,
*130		QC1- Inspect dimension	is to dimension sheet	0.00				1	d	•	KC	12-8
QC		Memo		0.00				7				

Memo

+ PERFORM ULTRA SONIC MEASUREMENT

Quality Control

NCR:	Yes	/	No

									•		DQA:	Date:	<u> </u>
NCR:	Yes	/ No				WORK ORDER NON-	COI	NFORI	MANCE / UPDATE		QA Closed:	Date	
Vork Ord	ler:					DISPOSITION			AGAI	NST D	EPARTMENT	/PROCESS	i ya wa
Part NCR	No.					Rework Scrap Use-as-is Work Order Update		Thern	Skid-tube Crosst Machining Small noforming Finish Large Fab Compo	Fab ning		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root					Descri	ption of work order update	Ti	nitial Action			Sign &		
Cause		Date	Step	Qty	(or Non-conformance	Ch	ief Eng	Description		Date	Verification	QC Inspector
oc/Data uip/Tooling perator aterial tup her ocess pplier aining approved										·			
							AUL	T CATE	GORY				
Land	ng (ī			_	General		1		Г	Ovalized	_	ا ا
		Bending Centre No Cracks Crushed/C Cuffs Heat Trea Inspectior Ripples in	Crimped. t n Strip in		o/s	BOM/Route Har Broken/Damaged Inst Burrs Inst Contamination Ma Countersink Cut Too Short Miss			Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled Misread			tolerance ct sssing Vrong Surge	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
	\vdash	Torque W		xtrusion		Drawing	-	Offset Out of C	alibration				
	\vdash	Turning Se				Finish	-		equence				

Outside Dimensions

Wave/Twist in Tube

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Ordo July-19-12 1:22		1557		*875	557*							Page 3
Item ID: Revision ID: Item Name:	D212-664-1			Accept	*N900	040	100	ገ*	-	Start Stop	*N: *N:	S1* S2*
Start Date: Required Date: Reference:	7/10/12 8/17/12	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:						
Approvals:	Process Pl	an:	Date:	Tooling: SPC (Y/N):		nte:				Start Stop	*N *N	R1* R2*
Sequence ID/ Work Center II 140 *140*)	Operation Description QC8- Inspect parts - seco	and check	Set Up/ Run Hours 0.00	i i	Tool#	Plan Code	Accept Qty	Reje Qty	N	Reject Number 8-16	Insp. Stamp
QC Quality Control		Memo + CHECK U BENDING	ILTRA SONIC MEASI	0.00 0.00 UREMENT AND ORIENT A	768116 ATION FOR							
145 *145* Crosstubes		Memo		0.00				Va	7 7	12 -	8-	16
Crosstubes			LY TRANSITION LIN	ES SMOOTH LONGITUDE	EWAY.							

150

150 HandFXtube

Hand Finishing Crosstubes

Memo

0.00

0.00

1- PRESSURE WASH X-TUBE INSIDE AND OUT

2- ACID ETCH X-TUBE INSIDE AND OUT. USE RED SCOTCH BRITE

Rm 12-8-19

			DQA:	Date:	
ICR:	Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE			

										QA Closed:	Date:	
Work Orde	er:				DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
					Rework			Skid-tube	Crosstube		Water Jet	Engineering
Part N	No				Scrap		٨	/Jachining	Small Fab	Pro	d. Eng. Coor.	Quality
					Use-as-is] Th	herm	oforming	Finishing	Rec/Sto	re/Packaging	Other
NCR N	۱o				Work Order Update		1	Large Fab	Composite		Supplier]
		,	,			<u> </u>			· · · · · · · · · · · · · · · · · · ·			
Root				1	ption of work order update	Initi	1		ction	Sign &		
Cause	Date	Step	Qty	(or Non-conformance	Chief	Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data							i					
Equip/Tooling		į										
Operator		į				į.						
Material						! ,	.					
Setup						7.A. 31	e ^{ste}					
Other						3*						
Process												
Supplier												
Training												
Unapproved							1					
					F/	AULT C	ATEG	ORY				
Landir	ng Gear				General					_		_
	Bending				Bend	Gra	ain			Ovalized		Pressure/Forced
	Centre I	Not Conce	ntric to (O/S	BOM/Route	Har	dwar	e		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	Insp	pectio	on Incomplete		Part Incorred	ct	Weld
	Crushed	/Crimped.			Burrs	Inst	tructio	ons incomplete/	'Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs				Contamination	Ma	inter	nance		Part Moved		_
	Heat Tre	eat			Countersink	Mis	label	ed		Positioned V	Vrong	
Ī	Inspecti	on Strip in	Tube		Cut Too Short	Mis	read			Power Loss/	Surge	Other
· [Ripples	in Bend			Drill Holes	Offs	set		<u> </u>	_		
Ī	Torque '	Waves in E	xtrusior	,	Drawing	Out	t of Ca	alibration				
		Sequence			Finish	Out	t of Se	equence				
ſ	Wave/T	wist in Tub	e		Folio	Out	tside l	Dimensions				

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Work Order ID 87557 *87557* Page 4 July-19-12 1:22:08 PM Accept D212-664-101TRN *N900040100* Item ID: Setup Start **Revision ID:** Stop Crosstube Turning Detail Item Name: Start Qty: 1.00 7/10/12 **Start Date: Cust Item ID:** Required Date: 8/17/12 **Req'd Qty:** 1.00 **Customer:** Reference: Run Start Process Plan: Date: **Tooling:** Date: **Approvals:** Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Tool # Plan Accept Reject Reject Insp. Set Up/ **Work Center ID** Code **Oty** Qty Number Stamp **Description Run Hours** QC5- Inspect part completeness to step on W/O 160 17/who *160* 0.00 QC Memo Quality Control 170 0.00 Packaging *170* mo 12/8/20 0.00 Packaging Memo Identify and Stock in kanban rack Packaging Location: QC21- Final Inspection - Work Order Release 0.00 180 MLJ 12/08/20 *180* 0.00 Memo Quality Control

											DQA:	Date	:
NCR:	Yes	/ No				WORK ORDER NON-	co	NFOR	MANCE / UP	DATE			
								_			QA Closed:	Date	:
Work Ord	or.					DISPOSITION				AGAINST DI	EPARTMENT	/PROCESS	•
Work Ord	- · ·					Rework	٦		Skid-tube	Crosstube	7	Water Jet	Engineering
Part I	No.					Scrap	1		Machining	Small Fab	Pro	d. Eng. Coor.	Quality
						Use-as-is	7		noforming	Finishing		re/Packaging	Other
NCR I	No					Work Order Update			Large Fab	Composite]	Supplier	
Root					Descri	ption of work order update	1	Initial	Act	tion	Sign &		
Cause		Date	Step	Qty	-	or Non-conformance	C	hief Eng	Desci	ription	Date	Verification	QC Inspector
Doc/Data													
Equip/Tooling												1	
Operator													
Material								•					
Setup													
Other													
Process							1						
Supplier													
Training													
Unapproved													
							AU	LT CATE	GORY				
Landi	ng Ge	ar				General		-			 -	_	_
	ШВ•	ending				Bend	L	Grain			Ovalized		Pressure/Forced
	L_Jc	entre No	t Concer	ntric to C)/S	BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure
	L]Cı	racks				Broken/Damaged	L	Inspecti	on Incomplete		Part Incorre	ct	Weld
	L Cı	rushed/0	Crimped.			Burrs		Instruct	ions Incomplete/l	Jnclear	Part Lost/M	issing	Wrong Stock Pulled
	∐ Cι	uffs				Contamination		Mainte	nance		Part Moved		
[Щн	eat Trea	t			Countersink		Mislabe	led		Positioned \	Wrong	
ĺ	In	spection	Strip in	Tube		Cut Too Short		Misread			Power Loss/	'Surge	Other
ſ	Ri	pples in	Bend			Drill Holes		Offset		<u> </u>			

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

July-19-12 1:22:07 PM

Work Order ID:

87557

Parent Item:

D212-664-101TRN

Parent Item Name:

Crosstube Turning Detail

Start Date: 7/10/12

Required Date: 8/17/12

Start Qty: 1.00

Required Qty: 1.00

١,

Comments:

IPP Rev:A 08-03-06 new issue DD verified by:ec

IPP Rev B 08.04.02 removed Polish EC verified by: DD

Component Item ID/ Item Name	Replacement ltem ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issuea	Date Issued	Status
D6005-128 Crosstube Material		Manufactured	No	-		120	Each	12.0000	1	1			

Location

Loc Qty 12

12

Loc Code

- mm 12/07/30

LG

			•					-		DQA:	Date:	<u> </u>	
NCR:	Yes / No				WORK ORDER NON-	CO	NFOR	MANCE / UPDA	ATE				
										QA Closed:	Date:	*	
Work Orde	ar:				DISPOSITION				AGAINST DE	INST DEPARTMENT/PROCESS			
Work Order: Part No. NCR No.			Rework Scrap Use-as-is Work Order Update		Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite		Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier		Engineering Quality Other				
Root			1,1	Descri	ption of work order update	_	I Initial	Actio	n	Sign &	i	- ··	
Cause	Date	Step	Qty		or Non-conformance		nief Eng	l .		Date	Verification *	QC Inspector	
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved	ing				<i>2</i>			Date	Vermodition	QC IIISPECTOI			
						AUL	T CATE	GURY					
Landin	Bending Centre No	Centre Not Concentric to O/S Cracks Crushed/Crimped. Cuffs			General Bend BOM/Route Broken/Damaged Burrs Contamination		1	ion Incomplete ions Incomplete/Unc enance		Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved	ssing #	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled	

Misread

Out of Calibration

Out of Sequence

Outside Dimensions

Offset

Power Loss/Surge

Other

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

DART AEROSPACE LTD	Work Order:	£7557
Description: Crosstube Assembly (205/212/412 High Fwd)	Part Number:	D212-664-141
Inspection Dwg: D212-664-141 Rev: D		Page 1 of 2

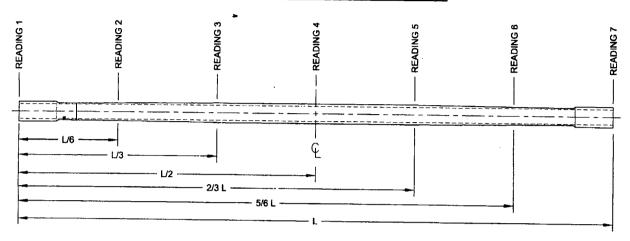
FIRST ARTICLE INSPECTION CHECKLIST

	spection Sheet wing Dimension	Tole	x.	ant	Reject	Method of Inspection	Comments
	0.200	+/	_			3RN	C-11 -00
	R0.063	+	$\bigcap \Omega \Lambda$			36	CNC-08
4	2.740	+0.	Coff toleRAN	1 1		'ERN	CNC 08
	5.097		$\pm i'$	Vor :			CAC CO
	2.304	+/	10/8 KA.		\cup	1	
	2.340	4	.,/3/	$\mathcal{I}(\rho)$			
	2.398	Γ 2:	747				
SIDE	2.448	Ţ ' ' '	12-2	774			
	2.498	[†]	142-2. 142-2. 14per 10	171	-		
	2.549	()	Aper 10	VAILLY)	_		
	2.599		' /	""Y J	_		
ļ	2.671	1					
Ī	2.701	+0.005/-0.00					- 1
	_					VI.	<u> </u>
	0.200	+/-0.010	-200	T -		VERN	C+16 - C
Ī	R0.063	+/-0.010	-063			Rb	CNC OB
ſ	2.740	+0.005/-0.000	2.741			VERN	CNC 03
	5.097	+/-0.030	\$100			VERN	UNC US
	2.304	+0.005/-0.000	2.303				1
[2.340	+0.005/-0.000	2342	//			
ШB	2.398	+0.005/-0.000	2.400				
SIDE	2.448	+0.005/-0.000	2.450				
"	2.498	+0.005/-0.000	2.553	-			
	2.549	+0.005/-0.000	2,554	-			
	2.599	+0.005/-0.000	2604				
	2.671	+0.005/-0.000	2.676				
	2.701	+0.005/-0.000	2-7640	/		1	
r	126.514	+/-0.020	12/05/4	1/		Lane	LG-22

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DART AEROSPACE LTD	Work Order:	F22F3
Description: Crosstube Assembly (205/212/412 High Fwd)	Part Number:	D212-664-141
Inspection Dwg: D212-664-141 Rev: D		Page 2 of 2

WALL THICKNESS MEASUREMENT



	WALL	THICKNESS	MEASUREMEI	NT (IN)	Deviation	
Location	w1	w2	w3	W/S	Δw (max-min)	TOLERANCE
READING 1 L= 0"	.375	.374	377	.378	.006	
READING 2 L=	. 238	.244	. 246.	.243	,008	
READING 3 L=	.356	.361	. 367.	. 355	.007	
READING 4 L=	.376	, 385	.380	,378	.009	0.048"
READING 5	366	. 354	. 350	. 367	016	
READING 6 L=	.269	. 239	.228	257	:041	·
READING 7 L=	, 384	.369	.372	.386.	.017	

Calibration Result

Actual Block Thickness: 100-500

Sitescan 250 Measured Thickness: 100-500

Measured by:	LC	Audited by:	SAC	JW	Preliminary Approval:	
Date:	12-8-1	Date:	16	112-8-4	Date:	
			. 0 -63	2.0	L	L

Date	Change Robbits	Revised by	Approved
05.04.27			Approved
06.03.15			
07.05.28			
10.02.02			
12.06.04	Wall thickness form added	KJ DA	<u> </u>
	05.04.27 06.03.15 07.05.28 10.02.02	05.04.27 New Issue (P/O D412-664-101) 06.03.15 Tolerance revised fc: \$4097 per Dwg Rev update 07.05.28 Dwg Rev updated 10.02.02 Dimension 126.514 was 126.51	05.04.27 New Issue (P/O D412-664-101) KJ/JLM 06.03.15 Tolerance revised fc: ₹i097 per Dwg Rev update KJ/JLM 07.05.28 Dwg Rev updated KJ/JLM 10.02.02 Dimension 126.514 was 126.51 KJ Λ

Cr. 1

Item	Qty -141	Qty -141B	Part Number	Description
1	х		D212-664-141	CROSSTUBE ASSEMBLY (205/212/412 HIGH FWD)
2	ļ	X	D212-664-141B	CROSSTUBE ASSEMBLY (214 HIGH FWD)
3	1	_ 1	D6005-128	CROSSTUBE
4	2	2	D2893-1	SUPPORT
5	4	4	D3595-063-450	RUBBER CUSHION
6	4	4	MS21920-25	CLAMP (OR MS21920-26)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

1) MATERIAL: MANUFACTURED FROM D6005-128 FINISHED LENGTH = 126.514±0.020

CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED.

BREAK SHARP EDGES: 0.005 TO 0.010 MAX,

IDENTIFICATION: SCRIBE DAR (PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS

WEIGHT: D212-664-141 = 33.6 lbs (PER IIN-D212-664) D212-664-141B = 33.6 lbs (PER IIN-D212-664)

PART IS SYMMETRIC ABOUT CENTERLINE.

RUN CUTTER OFF PART, BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.

10) BEND PROGRESSIVELY WITH A MINIMUM OF 3 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.

11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.

11) INSTALL D2893-1 SUPPORT USING 0.03° TO 0.06° THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALL ATION AND PRIOR TO PACKAGING.

13) INSTALL MS21920-25 CLAMPS (OR -26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE D2893-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE SUPPORT

14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY RETURN TO ENGINEERING **UNCONTROLLED COPY** SUBJECT TO AMENDMENT

WITHOUT NOTICE

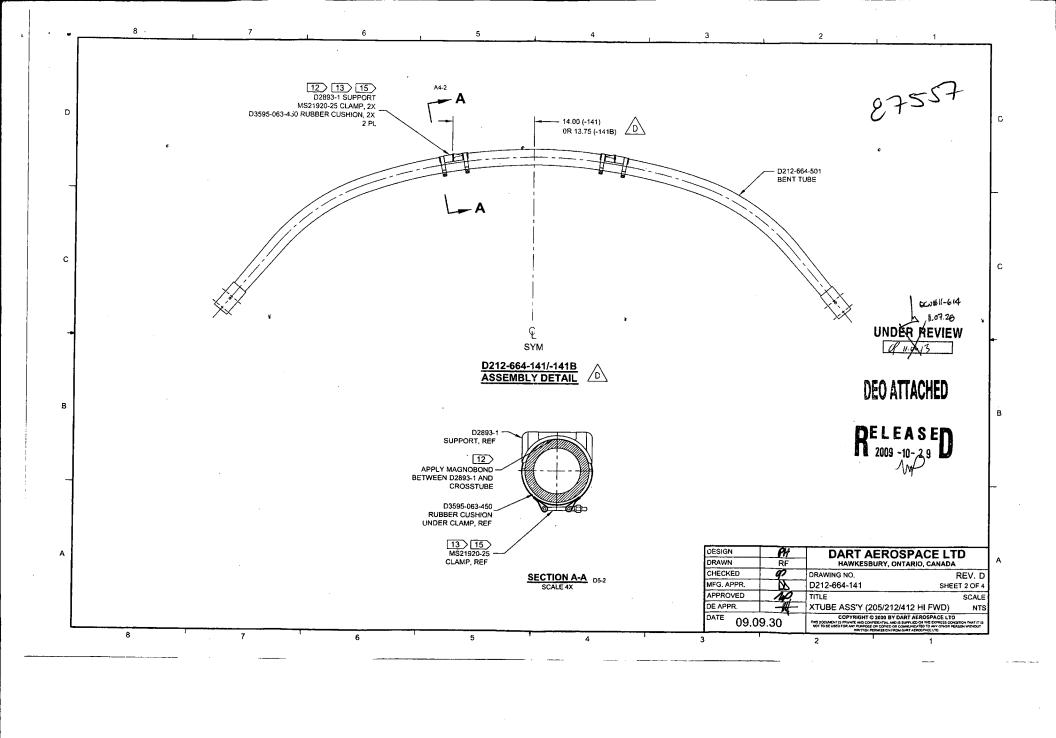
12/07/20

REMOVED FROM UNDER REVIEW PER UNDER REVIEW SCN #11-614

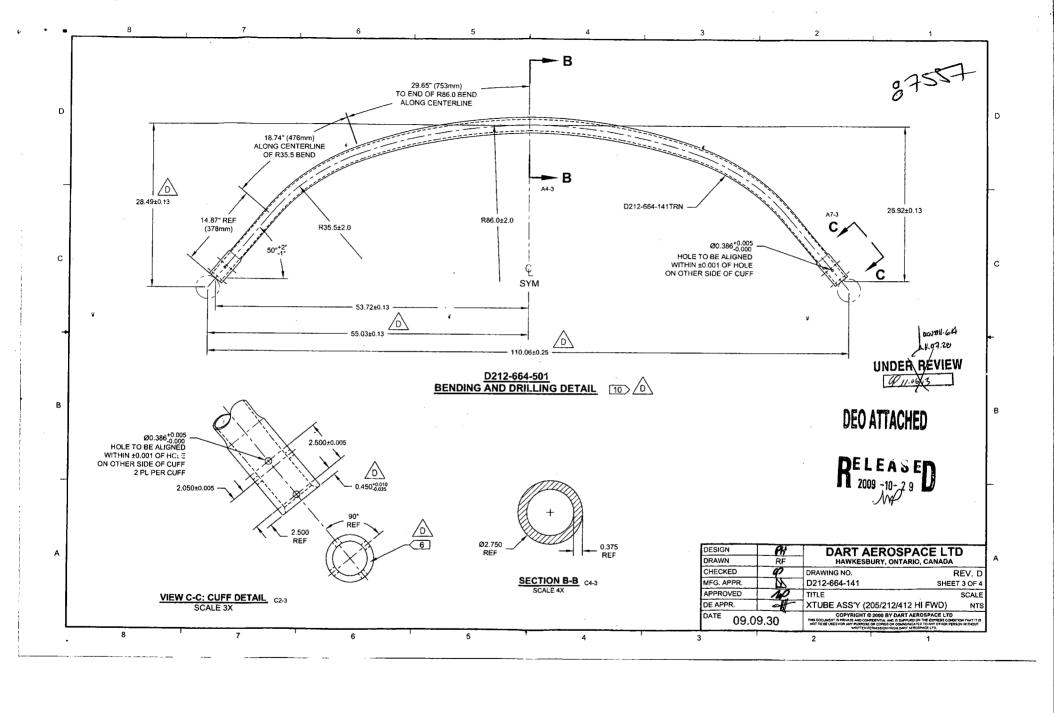
REFORMAT/REVISE GENERAL NOTES/PART LIST; 09.09.30 REORGANIZED VIEWS AND REFORMATTED DRAWING TO CURRENT STANDARDS; ADD -141B (ZN B4-2, D4-2); REMOVED REF & ADD TOLERANCES (ZN B4-2, C 3, C8-3 & B6-3); RELOCATED FLAG #6 PER PAR 08-046 (ZN A5-3); MOVED TURNING DETAIL & UPDATED TOLERANCE TO SHEET 4 REMOVE -851 ABRASION STRIP; ADD MAGNOBOND 07 03 08 6398, CUSHION, REVERSE CLAMPS ADD HOLES FOR COMPATABILITY WITH BHT/AA 05.02.04 SKIDTUBES NEW ISSUE PH 00.12.12 REV. DESCRIPTION BY DATE

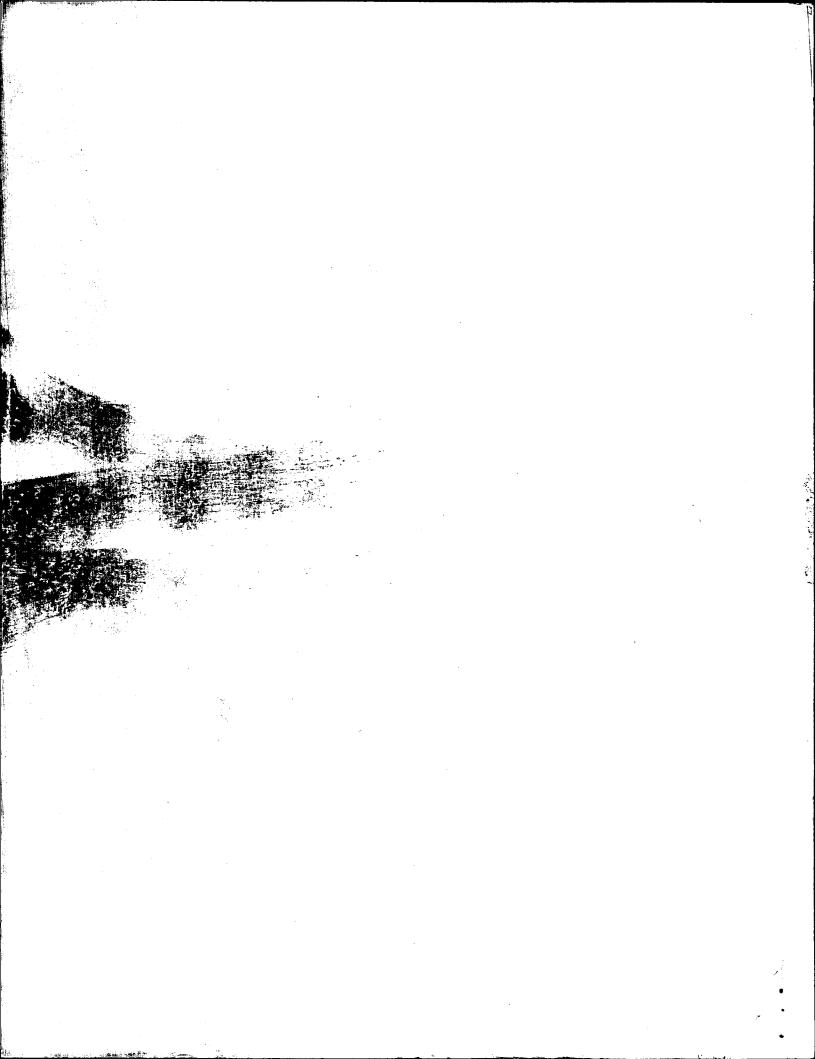
DESIGN PH		DART AEROSPACE LTD				
DRAWN	RF	HAWKESBURY, ONTARIO, CAI				
CHECKED	q)	DRAWING NO.	REV. D			
MFG. APPR.	<i>\begin{align*}</i>	D212-664-141	SHEET 1 OF 4			
APPROVED	10	TITLE	SCALE			
DE APPR.		XTUBE ASS'Y (205/212/412 HI FV	VD) NTS			
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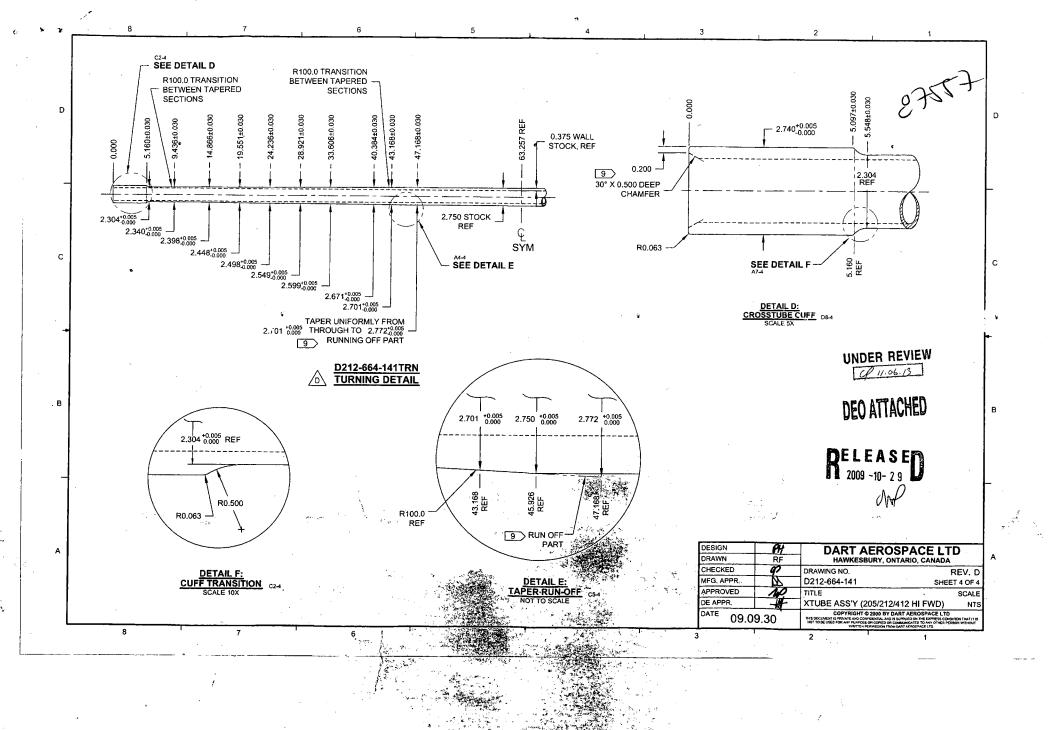
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DRAWING NO.	TITLE		REV. D	DART A	ROSPACE LTD	D.E.O. NO.		SHEE	ET NO.	SCALE
D212-664-141	XTUBE ASS	SY (205/212/412 H	I FWD)	ENGINE	ERING ORDER	D212-66	4-141 <u>-</u> D-1	SHEET	Г1 OF 2	NTS
DRAWN	لله الله	CHECKED	P	MFG. APPR.	R	APPROVED	M.	DE APPR.	-#/-	
DATE 11	04.07	DATE)	1,0%11	DATÉ	11.04.12	DATE	11/04/12	DATE	11.04.12	

ADD AN INSPECTION WINDOW TO UNDERSIDE OF CROSSTUBE.

CHANGE:

NOTES 2 OF SHEET 1 IS AMENDED AS FOLLOWS:

<u> 18:</u>

FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HAT SED AREA) AND

PAINT OUTSIDE PER DART QSI 005 4.2

REMOVE MASKING AND APPLY CLEAR COAT

WAS:

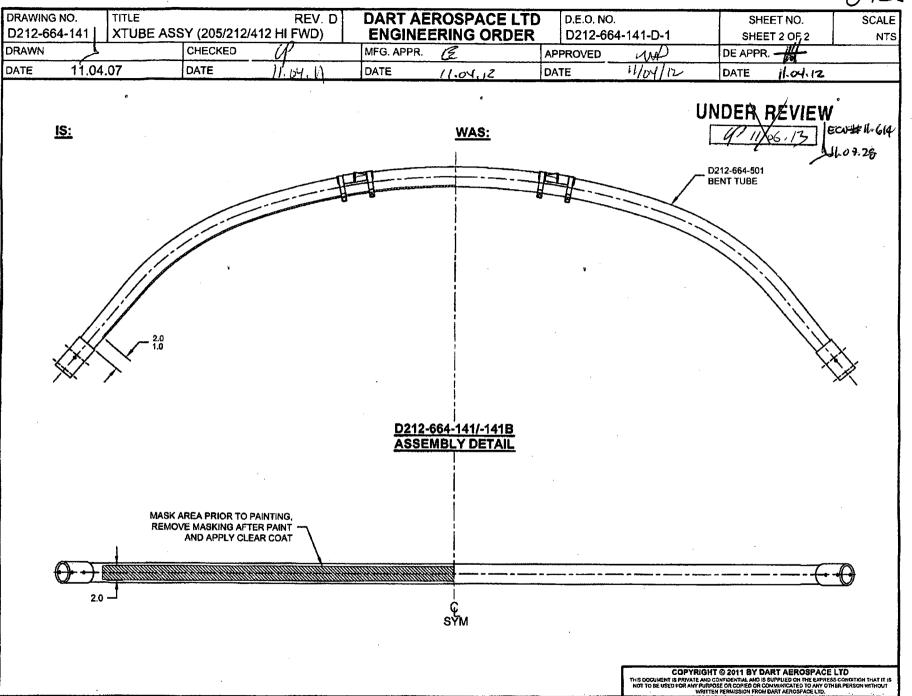
2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

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DRAWING NO.	TITLE REV. D	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D212-664-141	CROSSTUBE ASS'Y (205 HI FWD)	ENGINEERING ORDER	D212-664-141-D-2	SHEET 1 OF 1	NTS
DRAWN //	CHECKED A>S	MFG. APPR.	APPROVED MA	DE APPR.	
DATE 11.07	15 DATE 11.07.20	DATE 11.07.21	DATE 11/07/2)	DATE 11.07.21	

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL.

CHANGE:

IS:

ltem	Qty -141	Qty -141B	Part Number	Description
7	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

W ું.:

7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
			·	ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
				TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

IS:

- 12) TO INSTALL D2893-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SAND? PER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY 4 0.04° TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

WAS:

- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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